Dr.-Ing. Ashraf Armoush

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Personal

From April 2007 till June 2010, I worked as a PhD student at the Embedded Software Laboratory at RWTH Aachen University. My research interest focused on the design patterns for safety-critical embedded systems and the representation of the non-functional requirements.

Education

- 2007–2010: RWTH Aachen University, Aachen/Germany. PhD.

Publications

[ABK09]

Safety Assessment of Design Patterns for Safety-Critical Embedded Systems

Bibtex entry:

@inproceedings { ABK09,  
    author = { Armoush, Ashraf and Beckschulze, Eva and Kowalewski, Stefan },  
    title = { Safety Assessment of Design Patterns for Safety-Critical Embedded Systems },  
    booktitle = { 35th Euromicro Conference on Software Engineering and Advanced Applications (SEAA 2009) },  
    year = { 2009 },  
    pages = { 523-527 },  
    month = { Aug. },  
    publisher = { IEEE CS },  
    owner = { Ashraf Armoush },  
    timestamp = { 2009.06.12 },
}

[AK09]
PDFBIB


Safety Recommendations for Safety-Critical Design Patterns

Bibtex entry:

@inproceedings { AK09,  
    author = { Ashraf Armoush and Stefan Kowalewski },  
    title = { Safety Recommendations for Safety-Critical Design Patterns },  
    booktitle = { Design of Dependable Critical Systems (DDCS) In the framework of the SAFECOMP2009 },  
    publisher = { Universit"at Heidelberg },  
    year = { 2009 },  
    pages = { 9-16 },  
    owner = { armoush },  
    timestamp = { 2009.09.16 },
}

[ASK09]
PDFBIB

**Design Pattern Representation for Safety-Critical Embedded Systems**

Bibtex entry:

```bibtex
@article { ASK09,
   author = { Armoush, Ashraf and Salewski, Falk and Kowalewski, Stefan },
   title = { Design Pattern Representation for Safety-Critical Embedded Systems },
   journal = { Journal of Software Engineering and Applications (JSEA) },
   year = { 2009 },
   volume = { 2 },
   pages = { 1--12 },
   number = { 1 },
   month = { April },
   issn = { 1945-3116 (Print) 1945-3124 (Online) },
   owner = { armoush },
   timestamp = { 2009.04.17 },
}
```

[ASK08a] PDF BIB


**Effective Pattern Representation for Safety Critical Embedded Systems**

Bibtex entry:

```bibtex
@inproceedings { ASK08a,
   author = { Armoush, Ashraf and Salewski, Falk and Kowalewski, Stefan },
   title = { Effective Pattern Representation for Safety Critical Embedded Systems },
   booktitle = { 2008 International Conference on Computer Science and Software Engineering },
   year = { 2008 },
   volume = { 4 },
   pages = { 91--97 },
   month = { Dec. },
}
```

Informatik 11 - Embedded Software - https://embedded.rwth-aachen.de/

Bibtex entry:

@inproceedings { ASK08b,
    author = { Armoush, Ashraf and Salewski, Falk and Kowalewski, Stefan },
    booktitle = { 11th International Conference on Information Technology (ICIT 2008) },
    year = { 2008 },
    pages = { 232--237 },
    month = { Dec. },
    publisher = { IEEE CS },
    doi = { 10.1109/ICIT.2008.60 },
    isbn = { 978-0-7695-3513-5 },
    owner = { Ashraf Armoush },
    timestamp = { 2009.01.12 },
    url = { http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=4731332 },
}

[ASK08c]

A Hybrid Fault Tolerance Method for Recovery Block with a Weak Acceptance Test

Bibtex entry:

@inproceedings { ASK08c,
  author = { Armoush, Ashraf and Salewski, Falk and Kowalewski, Stefan },
  title = { A Hybrid Fault Tolerance Method for Recovery Block with a Weak Acceptance Test },
  booktitle = { The 5th IEEE/IFIP International Conference on Embedded and Ubiquitous Computing (EUC 2008) },
  year = { 2008 },
  volume = { 1 },
  pages = { 484-491 },
  month = { Dec. },
  publisher = { IEEE CS },
  doi = { 10.1109/EUC.2008.102 },
  isbn = { 978-0-7695-3492-3 },
  owner = { Ashraf Armoush },
  timestamp = { 2009.01.20 },
  url = { http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=4756378 },
}

[AS04]


Compound Global and Local Two-Level Adaptive Branch Predictor

Bibtex entry:

@article { AS04,
  author = { Armoush, Ashraf and Serhan, Sami },
  title = { Compound Global and Local Two-Level Adaptive Branch Predictor },
  journal = { Association for the Advancement of Modelling and Simulation Techniques in Enterprises Journal (AMSE-Modeling A) },
  year = { 2004 },
  volume = { 77 },
  pages = { 49--60 },
  number = { 5 },
  owner = { armoush },
